

## EAST Search History

| Ref # | Hits   | Search Query  | DBs             | Default Operator | Plurals | Time Stamp       |
|-------|--------|---|-----------------|------------------|---------|------------------|
| L1    | 152    | (water adj soluble) with (polyhydroxyethyl adj \$4acrylate)   | US-PGPUB; USPAT | OR               | OFF     | 2006/07/24 10:14 |
| L2    | 1      | "20020007751".pn. and (polyhydroxyethyl adj \$4acrylate)  | US-PGPUB; USPAT | OR               | OFF     | 2006/07/24 10:07 |
| L3    | 1      | "20020007751".pn. and (hydroxyethyl adj \$4acrylate)  | US-PGPUB; USPAT | OR               | OFF     | 2006/07/24 10:07 |
| L4    | 5693   | (water adj soluble) with (polyacrylic adj acid)   | US-PGPUB; USPAT | OR               | OFF     | 2006/07/24 10:15 |
| L5    | 5126   | (water adj soluble) with (polyacrylamide)   | US-PGPUB; USPAT | OR               | OFF     | 2006/07/24 10:16 |
| L6    | 4358   | (water adj soluble) with (gum adj arabic)   | US-PGPUB; USPAT | OR               | OFF     | 2006/07/24 10:19 |
| L7    | 184015 | saccharide or chitosan or polyethyleneimine or polyamine or polyvinylamine or polyallylamine or polydiallylamine or amino\$6acrylate or polyamide | US-PGPUB; USPAT | OR               | OFF     | 2006/07/24 10:20 |
| L8    | 2177   | 7 with (styrene with (acrylic adj acid))  | US-PGPUB; USPAT | OR               | OFF     | 2006/07/24 10:54 |
| L9    | 1      | 8 and infared   | US-PGPUB; USPAT | OR               | OFF     | 2006/07/24 10:21 |
| L10   | 529    | 8 and infrared  | US-PGPUB; USPAT | OR               | OFF     | 2006/07/24 10:21 |
| L11   | 115    | 10 and hydrophobic and hydrophilic  | US-PGPUB; USPAT | OR               | OFF     | 2006/07/24 10:21 |
| L12   | 42     | 11 and "430"/\$.ccls.   | US-PGPUB; USPAT | OR               | OFF     | 2006/07/24 10:21 |
| L13   | 39     | 12 and ((aqueous or water) with \$2soluble)   | US-PGPUB; USPAT | OR               | OFF     | 2006/07/24 10:22 |
| L14   | 26     | 12 and ((aqueous or water) with insoluble)  | US-PGPUB; USPAT | OR               | OFF     | 2006/07/24 10:25 |
| L15   | 18     | heat adj switchable   | US-PGPUB; USPAT | OR               | OFF     | 2006/07/24 10:58 |
| L16   | 853    | vinylmethyl adj ether   | US-PGPUB; USPAT | OR               | OFF     | 2006/07/24 10:33 |
| L17   | 2      | 16 with hydrophobic   | US-PGPUB; USPAT | OR               | OFF     | 2006/07/24 10:33 |
| L18   | 928    | (maleic adj anhydride) with hydrophobic   | US-PGPUB; USPAT | OR               | OFF     | 2006/07/24 10:35 |
| L19   | 28     | (vinyl adj methyl adj ether) with hydrophobic   | US-PGPUB; USPAT | OR               | OFF     | 2006/07/24 10:39 |
| L20   | 1303   | carboxylic with (maleic adj acid adj anhydride)   | US-PGPUB; USPAT | OR               | OFF     | 2006/07/24 10:40 |

## EAST Search History

|     |        |   |                 |    |     |                  |
|-----|--------|---|-----------------|----|-----|------------------|
| L21 | 234    | carboxylic with group with (maleic adj acid adj anhydride)  | US-PGPUB; USPAT | OR | OFF | 2006/07/24 10:40 |
| L22 | 353    | (water adj soluble) with (maleic adj acid adj anhydride)  | US-PGPUB; USPAT | OR | OFF | 2006/07/24 10:41 |
| L23 | 34     | (hydrophobic) with (maleic adj acid adj anhydride)  | US-PGPUB; USPAT | OR | OFF | 2006/07/24 10:42 |
| L24 | 353    | (water adj soluble) with (maleic adj acid adj anhydride)  | US-PGPUB; USPAT | OR | OFF | 2006/07/24 10:43 |
| L25 | 3      | (water adj insoluble) with (vinylmethyl adj ether)  | US-PGPUB; USPAT | OR | OFF | 2006/07/24 10:44 |
| L26 | 1      | "6165679".pn. and water   | US-PGPUB; USPAT | OR | OFF | 2006/07/24 10:44 |
| L27 | 0      | "20040202962".pn. and waterless   | US-PGPUB; USPAT | OR | OFF | 2006/07/24 10:51 |
| L28 | 1140   | polyvinylalcohol with (water adj soluble)   | US-PGPUB; USPAT | OR | OFF | 2006/07/24 10:51 |
| L29 | 5693   | (polyacrylic adj acid) with (water adj soluble)   | US-PGPUB; USPAT | OR | OFF | 2006/07/24 10:52 |
| L30 | 374    | (polyacrylic adj acid) with (water adj insoluble)   | US-PGPUB; USPAT | OR | OFF | 2006/07/24 10:52 |
| L31 | 2495   | (maleic adj anhydride) with (vinylmethylether or (vinylmethyl adj ether) or (vinyl adj methyl adj ether)) | US-PGPUB; USPAT | OR | OFF | 2006/07/24 10:59 |
| L32 | 43     | 31 with (water adj soluble adj (polymer or resin))  | US-PGPUB; USPAT | OR | OFF | 2006/07/24 11:02 |
| L33 | 60522  | hydrophilic with hydrophobic  | US-PGPUB; USPAT | OR | OFF | 2006/07/24 11:02 |
| L34 | 4221   | 33 and "430"/\$.ccls.   | US-PGPUB; USPAT | OR | OFF | 2006/07/24 11:02 |
| L35 | 3861   | hydrophilic with (chang\$4 or becom\$4) with hydrophobic  | US-PGPUB; USPAT | OR | OFF | 2006/07/24 11:10 |
| L36 | 317    | 35 and lithographic   | US-PGPUB; USPAT | OR | OFF | 2006/07/24 11:03 |
| L37 | 276    | 36 and (heat or infrared)   | US-PGPUB; USPAT | OR | OFF | 2006/07/24 11:03 |
| L38 | 89     | 37 and ((acrylic or methacrylic) with styrene)  | US-PGPUB; USPAT | OR | OFF | 2006/07/24 11:04 |
| L39 | 163350 | 38 and saccharide or chitosan or polyamine or polyvinylamine or polyamide                                 | US-PGPUB; USPAT | OR | OFF | 2006/07/24 11:04 |
| L40 | 56     | 38 and (saccharide or chitosan or polyamine or polyvinylamine or polyamide)                               | US-PGPUB; USPAT | OR | OFF | 2006/07/24 11:09 |

## EAST Search History

|     |      |  |                    |    |     |                  |
|-----|------|--|--------------------|----|-----|------------------|
| L41 | 5939 | (water adj soluble) with (saccharide or chitosan or polyamine or polyvinylamine or polyamide)  | US-PGPUB;<br>USPAT | OR | OFF | 2006/07/24 11:09 |
| L42 | 152  | hydrophilic with (chang\$4 or becom\$4) with hydrophobic with (heat or infrared)   | US-PGPUB;<br>USPAT | OR | OFF | 2006/07/24 11:10 |
| L43 | 77   | 42 and (saccharide\$1 or chitosan or polyethyleneimine or polyamine or polyvinylamine or polyallylamine or polydiallylamine or \$4amino\$6acrylate or polyamide) | US-PGPUB;<br>USPAT | OR | OFF | 2006/07/24 11:12 |
| L44 | 75   | 43 and (carboxyl\$2 or acrylic or methacrylic)   | US-PGPUB;<br>USPAT | OR | OFF | 2006/07/24 11:14 |
| L45 | 42   | 44 and ((water or aqueous) with (insoluble or ineluable))  | US-PGPUB;<br>USPAT | OR | OFF | 2006/07/24 11:14 |